

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,103,004 B2
APPLICATION NO. : 10/028805
DATED : September 5, 2006
INVENTOR(S) : Xianbin Wang

Page 1 of 2

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 5, line 58,	Replace "purposes) Following" With --purposes). Following--
Column 17, 40, Claim 5	Replace "number" With --numbers--
Column 17, line 46, Claim 6	Replace "a required upstream" With --a required multi-subcarrier upstream--
Column 17, line 50, Claim 6	Replace "of a subcarrier location" With --of subcarrier location--
Column 17, line 57, Claim 6	Replace "the required upstream" With --the required multi-subcarrier upstream--
Column 18, line 1, Claim 7	Replace "a plurality of location" With --a plurality of subcarrier location--
Column 18, line 24, Claim 8	Replace "avialable" With --available--
Column 18, lines 37-38, Claim 9	Replace "of adapted" With --of the adapted--
Column 18, line 63, Claim 15	Replace "cancelling" With --canceling--
Column 19, line 27, Claim 20	Replace "than a total" With --than in a total--
Column 19, line 36, Claim 21	Replace "a plurality of location" With --a plurality of subcarrier location--
Column 19, line 55, Claim 22	Replace "a plurality of location" With --a plurality of subcarrier location--
Column 20, line 5, Claim 23	Replace "uupstream" With --upstream--

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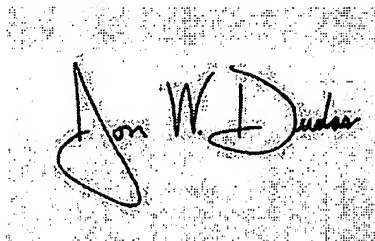
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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 20, line 36, Claim 28	Replace "scheme," With --schemes,--
Column 20, line 38, Claim 28	Replace "scheme," With --schemes,--
Column 20, line 67, Claim 32	Replace "scheme," With --schemes,--
Column 21, line 2, Claim 32	Replace "scheme," With --schemes,--
Column 21, line 19, Claim 36	Replace "subcarrier less than a total" With --subcarrier less than in a total--
Column 21, lines 39-40, Claim 37	Replace "noise effect with respect to any other active DSL loop" With --noise effect of the new DSL loop--

Signed and Sealed this

Sixth Day of February, 2007

A handwritten signature in black ink, appearing to read "Jon W. Dudas", is written over a rectangular area of the document that has been shaded with a stippled pattern.

JON W. DUDAS
Director of the United States Patent and Trademark Office